

HT-S3500 5.1-Channel Home Theater Receiver/Speaker Package



HDMI

DOLBY
TRUEHD

DTS-HD

WRAT
WIDE RANGE AMP TECHNOLOGYCINEMA
FILTER

192 kHz/24-bit

USB

RIHD

Theater-Dimensional

RI

Made for
iPod iPhone

Welcome to Immersive, Affordable Home Theater

For small- to medium-sized rooms, you can't go past the well-balanced and affordable HT-S3500 home theater package. Newly equipped with Onkyo's WRAT (Wide Range Amplifier Technology), the AVR and six-speaker set will surprise and delight with audio performance you would expect from a more expensive system. The package is easy to set up right out of the box, thanks to the intuitive HDMI®-overlaid On-Screen Display and wall-mountable speakers. Four HDMI inputs provide connectivity for BD players and gaming consoles, and there's an Audio Return Channel to send TV audio through the receiver. Plug your iPod®/iPhone® into the front-panel USB and enjoy clear, powerful sound with an inbuilt optimizer enhancing the quality of compressed digital music. The AVR decodes Dolby® TrueHD and DTS-HD Master Audio™, and is ready for 3D games and movies. Perfect for replacing an aging system, or for your first foray into the world of home theater, the package is rounded out with a subwoofer to boost bottom-end sound.

HT-R391

5.1-Channel Home Theater Receiver

- 110 Watts per Channel (6 Ohms, 1 kHz, 1% THD, 1 Channel Driven)
- HDMI® Support for 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- 4 HDMI Inputs and 1 Output
- Dolby® TrueHD, DTS-HD Master Audio™, Dolby® Digital Plus, DTS-HD High-Resolution Audio™ Decoding
- Direct Digital Connection of iPod®/iPhone® via Front-Panel USB Port
- WRAT (Wide Range Amplifier Technology)
- Discrete Output Stage Circuitry
- Overlaid On-Screen Display (OSD) via HDMI
- TI Burr-Brown 192 kHz/24-Bit DACs for All Channels
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Optimum Gain Volume Circuitry
- Advanced 32-Bit Processing DSP Chip
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Super EX.Bass for Deeper, More Dynamic Bass
- Set-Up Menu for Quick Access to Frequently Used Settings

- Advanced Music Optimizer for Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- CinemaFILTER™
- Direct Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- Mass Storage Class USB Memory Playback Capability
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- 5 Composite Video Inputs (1 Front/4 Rear) and 2 Outputs
- 3 Digital Audio Inputs (2 Optical and 1 Coaxial)
- 6 Analog Audio Inputs (1 Front/5 Rear) and 1 Output
- Speaker A/B Terminals
- Color-Coded Speaker Terminals
- Headphone Jack
- Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control (Up to 400 ms at 48 kHz)
- Tone Control (Bass/Treble) for Front L/R Channels
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 FM/AM Random Presets
- RIHD (Remote Interactive over HDMI) for System Control
- Compatible with RI (Remote Interactive) Dock for iPod/iPhone
- Full-Function RI Remote Control

HTP-391

5.1-Channel Home Theater Speaker System

SKF-391 Full-Range Bass Reflex Front Speakers

- 3 1/4" (8 cm) Cone
- Max. Input Power: 120 W
- Gloss Finished
- Wall-Mounting Capability

SKC-391 Full-Range Bass Reflex Center Speaker

- 3 1/4" (8 cm) Cone
- Max. Input Power: 120 W
- Gloss Finished
- Wall-Mounting Capability

SKR-391 Full-Range Bass Reflex Surround Speakers

- 3 1/4" (8 cm) Cone
- Max. Input Power: 120 W
- Gloss Finished
- Wall-Mounting Capability

Note: All speakers feature an impedance of 6 ohms and color-coded speaker terminals.

SKW-391 Bass Reflex Subwoofer

- 8" (20 cm) Cone
- Max. Input Power: 130 W
- Down-Firing



HT-S3500 5.1-Channel Home Theater Receiver/Speaker Package

Audio Return Channel and 3D Video via HDMI®

Four HDMI inputs allow you to easily integrate high-definition devices such as Blu-ray players, cable/satellite tuners, and gaming consoles. HDMI implementation on this receiver also supports an Audio Return Channel, allowing audio received directly by your TV's tuner to be sent "upstream" to the A/V receiver. That means you can enjoy television programs in magnificent Onkyo sound. HDMI also supports 3D video and numerous other high-resolution formats, and has the added advantage of reducing cable clutter for a cleaner and simpler install.

Direct Digital iPod®/iPhone® Connection for Cleaner Sound

The receiver's front-panel USB port lets you play MP3 and AAC stored on an iPod/iPhone, and MP3, WMA, AAC, and FLAC audio files stored on a flash-memory device using the system's own remote for track selection and playback. Your music will also sound much cleaner and clearer, as the audio signal is transported in digital form (rather than analog) via the direct digital connection.

WRAT (Wide Range Amplifier Technology) Delivers Higher Fidelity

WRAT is a suite of innovative technologies developed to improve signal-to-noise ratios, and to enhance the fidelity of amplified audio. The technologies work to reduce noise across the frequency range, guaranteeing a well-balanced performance even with the most dynamic soundtracks. It achieves this by employing a low negative-feedback amplifier design; using "closed" ground-loop circuitry to cancel noise from individual circuits; and by ensuring high instantaneous-current capability to cancel reflex energy and impedance fluctuations from the speakers. The WRAT design has made Onkyo AVRs the firm favorite among discerning audio enthusiasts.

Enjoy Lossless High-Definition Movie Soundtracks

The HT-R391 receiver can decode Dolby® TrueHD and DTS-HD Master Audio™—two "lossless" Blu-ray formats that deliver a soundtrack identical to the studio master. The receiver also handles Dolby® Digital Plus and DTS-HD High Resolution Audio™. Dolby Digital Plus is designed to accompany HD video delivered via disc media, television broadcasts, and online content. DTS-HD High Resolution Audio, meanwhile, offers a higher bit and sampling rate than the core DTS technology.

Convenient Overlaid On-Screen Display via HDMI

The receiver's overlaid On-Screen Display (OSD) feature makes changing the settings on your A/V receiver quick and easy. On-screen set-up menus appear overlaid on the video image you're watching. This means you can adjust the settings immediately, without having to stop the program and switch to a different screen to access menus.

Top-Quality DACs Produce Clearer Sound

Digital-to-Analog converters are of particular importance to audio fans seeking excellent sound reproduction, and the HT-R391 features reliable, high-performance 192 kHz/24-bit chips from Burr-Brown. As well as optimizing analog performance, these DACs are highly resistant to "clock jitter", a subtle form of digital distortion.

Get More Realistic Action with Four Different Gaming Modes

Select from four different optimized audio modes to match your gaming content for a highly realistic surround sound experience. Rock, Sports, Action, and RPG game modes will help to bring out the best in any soundtrack, from subtle ambient effects to thundering explosions.

Advanced Music Optimizer to Enhance Compressed Digital Music Files

While MP3 or AAC files may sound fine through the headphones of your portable digital player, the limitations of these files can be exposed when played back through a quality home entertainment system. This is because a significant amount of high-frequency bit information is lost during the file-compression process. To counter this, Onkyo has designed the Advanced Music Optimizer to compensate for lost bit information and improve the quality of compressed audio signals. This results in a clearer and more expansive sound. Also included in this technology is a loudness correction feature that further improves the audio character of compressed files.

Super EX.Bass for Deeper, More Dynamic Bass

Onkyo's proprietary Super EX.Bass function boosts low-frequency output at two separate points: 40 Hz and 80 Hz. At low volumes, Super EX.Bass creates a deeper, more dynamic bass sound for your music and movies. When the volume is turned up high, the boosted bass automatically returns to normal levels.

SPECIFICATIONS

A/V RECEIVER

Amplifier Section

Power Output

Front L/R	110 W/Ch (6 Ohms, 1 kHz, 1% THD, 1 Channel Driven)
Center	65 W/Ch (8 Ohms, 20 Hz–20 kHz, 0.7% THD, 2 Channels Driven, FTC)
	110 W (6 Ohms, 1 kHz, 1% THD, 1 Channel Driven)
Surround L/R	65 W (8 Ohms, 20 Hz–20 kHz, 0.7% THD, 2 Channels Driven, FTC)
	110 W/Ch (6 Ohms, 1 kHz, 1% THD, 1 Channel Driven)
Subwoofer	65 W/Ch (8 Ohms, 20 Hz–20 kHz, 0.7% THD, 2 Channels Driven, FTC)
	110 W (6 Ohms, 1 kHz, 1% THD, 1 Channel Driven)
	65 W (8 Ohms, 20 Hz–20 kHz, 0.7% THD, 2 Channels Driven, FTC)

Dynamic Power

	160 W (3 Ohms, Front)
	125 W (4 Ohms, Front)
	85 W (8 Ohms, Front)

THD+N (Total Harmonic Distortion + Noise)

	0.08% (20 Hz–20 kHz, Half Power)
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Damping Factor

	60 (Front, 1 kHz, 8 Ohms)
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Input Sensitivity and Impedance

	200 mV/47 k-ohms (Line)
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Rated RCA Output Level and Impedance

	200 mV/2.2 k-ohms (Rec Out)
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Maximum RCA Output Level and Impedance

	2.0 V/2.2 k-ohms (Rec Out)
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Frequency Response

	5 Hz–100 kHz/±1 dB, -3 dB (DSP Bypass)
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Tone Control

	±10 dB, 30 Hz (Bass)
	±10 dB, 20 kHz (Treble)

Signal-to-Noise Ratio

	100 dB (Line, IIF-A)
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Speaker Impedance

	6 Ohms–16 Ohms
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Video Section

Input Sensitivity/Output Level and Impedance

Video	1.0 Vp-p/75 Ohms (Component Y)
	0.7 Vp-p/75 Ohms (Component Pb/Cb, Pr/Cr)
	1.0 Vp-p/75 Ohms (Composite)

Component Video Frequency Response

	5 Hz–100 MHz/±0 dB, -3 dB
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Tuner Section

Tuning Frequency Range

FM	87.5 MHz–107.9 MHz
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AM	530 kHz–1,710 kHz
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FM/AM Preset Memory

	40 Stations
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General

Power Supply

	AC 120 V~, 60 Hz
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Power Consumption

	3.7 A
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Dimensions (W x H x D)

	17 1/8" x 5 7/8" x 12 1/2"
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	(435 x 150 x 318 mm)
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Weight

	16.8 lbs. (7.6 kg)
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SPEAKER SYSTEM

Speaker Type

Front	Full-Range, Bass Reflex
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Center	Full-Range, Bass Reflex
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Surround	Full-Range, Bass Reflex
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Subwoofer	Bass Reflex
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Drivers

Front	3 1/4" (8 cm) Cone
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Center	3 1/4" (8 cm) Cone
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Surround	3 1/4" (8 cm) Cone
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Subwoofer	8" (20 cm) Cone
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Frequency Response

Front	80 Hz–20 kHz
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Center	80 Hz–20 kHz
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Surround	80 Hz–20 kHz
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Subwoofer	30 Hz–150 Hz
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Output Sound Pressure Level

Front	80 dB/W/m
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Center	80 dB/W/m
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Surround	80 dB/W/m
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Subwoofer	83 dB/W/m
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Max. Input Power

Front/Center/Surround	120 W
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Subwoofer	130 W
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Nominal Impedance

Front/Center/Surround/Subwoofer	6 Ohms
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General

Dimensions (W x H x D)

Front	4" x 7 7/8" x 4 1/2"
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	(101 x 200 x 114 mm)
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Center	9 7/16" x 4" x 4 3/4"
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	(240 x 102 x 121 mm)
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Surround	4" x 7 7/8" x 4 1/2"
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	(101 x 200 x 114 mm)
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Subwoofer	11 3/8" x 13 3/16" x 14 1/2"
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	(295 x 345 x 368 mm)
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Weight

Front	1.5 lbs. (0.7 kg)
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Center	1.8 lbs. (0.8 kg)
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Surround	1.5 lbs. (0.7 kg)
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Subwoofer	14.1 lbs. (6.4 kg)
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CARTON

Dimensions (W x H x D)

	21 1/8" x 29 7/16" x 16 1/8"
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	(537 x 751 x 414 mm)
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Weight

	47.4 lbs. (21.5 kg)
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UPC CODE

(B)	751398010484
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Supplied Accessories

• Indoor FM antenna • AM loop antenna • Color-coded speaker cable

• Instruction manual • Quick start guide • Remote controller

• AA (R6) batteries x 2

HT-R391



Front View



Rear View

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